

Alpha Probes

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A1, A2

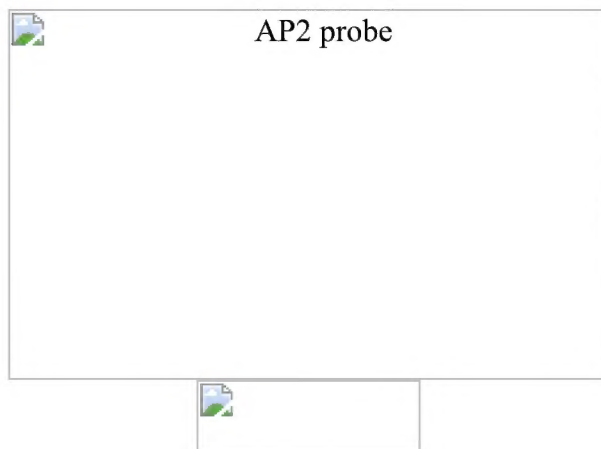
The A1 and A2 respectively use 1 inch and 2 inch diameter ZnS phosphors mounted on acrylic and are used to pinpoint alpha contamination.

- Small lightweight probes, MHV connector.

A50L

Probe with ZnS phosphor used for general purpose alpha monitoring.

- Light weight, low profile, angled grip
- Large radiation window, hex-mesh grilles, protective storage covers
- Connector: MHV
- Uniformity within $\pm 10\%$ over the whole phosphor surface.

 A50 probe


AP2/4A, AP2R/4A, IAP2B

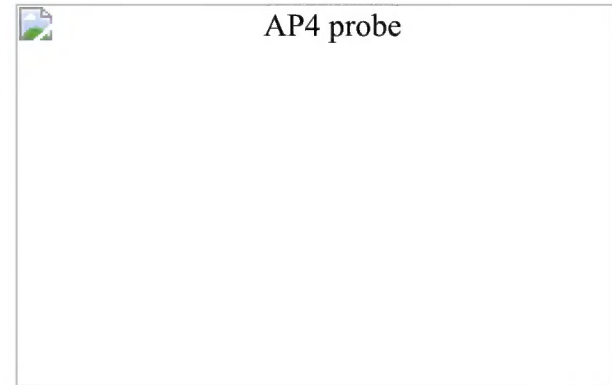
General purpose alpha probes containing a ZnS phosphor and PMT in a light alloy housing. The radiation window is conveniently angled for self monitoring of clothing. AP2R/4A is fitted with a rugged 3 mm mesh grille.

- Excellent gamma rejection
- AP2/4A & AP2R/4A connector, PET
- 241Am Calibration source, RRS 21A.

AP4/4A, IAP4B

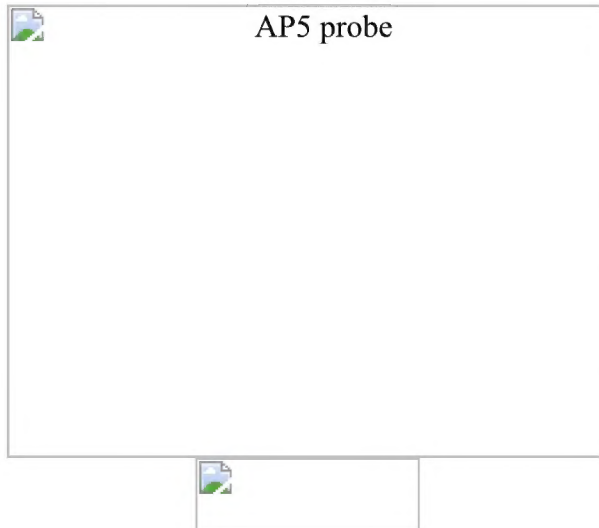
A ZnS based alpha probe with circular window, used with wall mounted friskers, the 710C Lead Castle and in glovebox areas.

- Circular window matched to 2 inch alpha wipes
- AP4/4A fits 710C Lead Castle for counting applications
- AP4/4A connector, PET
- 241Am Calibration source, RRS11A

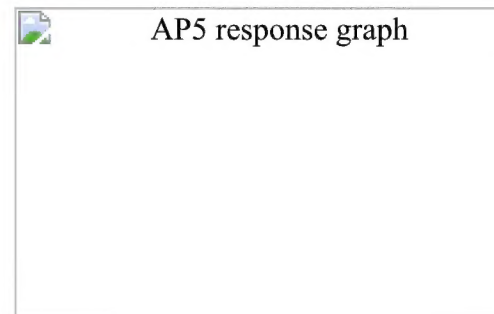


AP5A, AP5RA, IAP5B

Large, ZnS based scintillation probe for monitoring workplaces, benches, personnel and tools.



- High transmission rectangular hex-grille
- Slim, light weight, wedge shaped profile
- AP5RA version has a ruggedized hex-grille
- Field-replaceable radiation windows
- AP5A & AP5RA connector, PET
- Calibration source, RRS 51A.

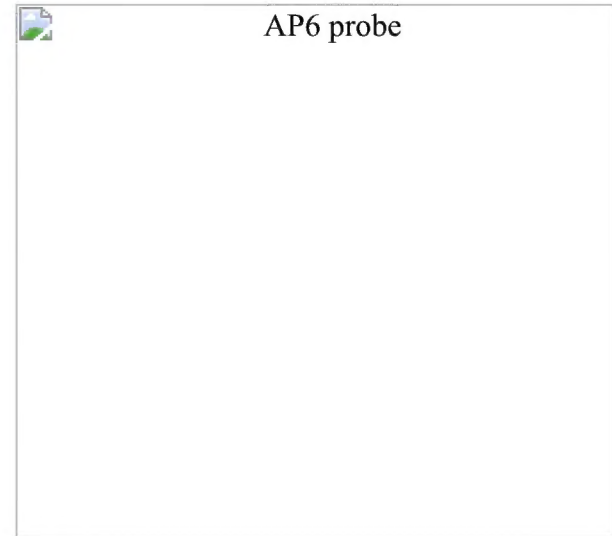


AP6A

Very large ZnS based scintillation probe for fast monitoring of walls and floors. It offers higher efficiency than air proportional counters and is more practical than gas flow counters -no counting gas is required.

- 600 cm² window
- Weight only 1.55 kg (3.5 lb)
- Connector: PET

- 241Am Calibration Source, RRH 11B.



Comparison Table

Order Code	Radiation Window		Efficiency		Background	Weight	
	Area, cm ²	Shape	Isotope (MeV)	% surface emission	cps	kg	lb
A1	5	disc	²³⁰ Th (4.682)	>= 50%		0.235	0.5
A2	20	disc	²³⁰ Th (4.682)	>= 50%		0.235	0.5
A50L	50	rectangle	²³⁰ Th (4.682)	>= 50%		0.6	1.3
AP2/4A	50	square	²⁴¹ Am (5.486)	35%	< 0.1	0.75	1.7
AP2R/4A	50	square	²⁴¹ Am (5.486)	25%	< 0.1	0.75	1.7
AP4/4A	20	disc	²⁴¹ Am (5.486)	35%	< 0.1	0.6	1.35
AP5A	100	rectangle	²⁴¹ Am (5.486)	35%	0.04	0.5	1.1
AP5RA	100	rectangle	²⁴¹ Am (5.486)	23%	0.04	0.5	1.1
AP6A	600	rectangle	²⁴¹ Am (5.486)	28%	< 0.1	1.55	3.5

